

# Release Note NRSW 4.1.0.108

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**Project Name:** NRSW

## Abstract:

This document represents the release note for NetModule Router Software 4.1.0.108. It informs on new functionality, corrections and known issues of this software version of NetModule's router series in comparison to the current stable release 4.1.0.106.

## Keywords:

NetModule, Software Development, NRSW, Release Note

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## 1 Release Information

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### NetModule Router Software:

Version: **4.1.0.108**  
Date: **October 31, 2019**

### Supported Hardware:

NetModule Router	Hardware Version
NB800	V2.0 - V2.2
NB1600	V1.0 - V3.3
NB2700	V1.0 - V2.7
NB2710	V1.0 - V2.7
NB2800	V1.0 - V1.4
NB3700	V2.0 - V4.4
NB3701	V1.0 - V1.4
NB3710	V2.0 - V4.3
NB3711	V1.0 - V1.4
NB3720	V2.0 - V4.3
NB3800	V1.0 - V1.4

### Unsupported Hardware:

**NetModule Router**  
NB1300 Series  
NB1601 Series  
NB1800 Series  
NB2200 Series  
NB2300 Series  
NB2500 Series  
NB2600 Series



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## 2 New Features

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Case-#	Description
57961	<b>SDK improvements</b> New API function to nb_syslog_p() for logging to different log levels.

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### 3 Fixes

The following issues and problems have been fixed.

Case-#	Description
<b>56086</b>	<b>Watchdog on failing SDK script did not work</b> A change in the watchdog API was not properly handled by the SDK scripting engine. Resulting in watchdog to fail to restart the System on error. This was fixed.
<b>56374</b>	<b>Problems on switch-over between WAN and WWAN</b> Under rare conditions the switch over between WAN and WWAN did not work as expected.
<b>57584</b>	<b>Time synchronization required after reboot on NB2700</b> The system time was not recovered correctly from the internal RTC after soft-reboot, which made an additional time synchronization from an external source (NTP, GNSS) mandatory. This was fixed.
<b>57659</b>	<b>Time synchronization with GNSS could fail</b> On devices equipped with Sierra Wireless MC7455 the time synchronization with GNSS failed. This was fixed in gpsd.
<b>58318</b>	<b>Old configuration files failed to apply</b> Some very old configuration files failed to apply with error message 'Unable to create backup'. This was fixed.
<b>58339</b> <b>58544</b>	<b>GUI improvements</b> If VLAN is configured on bridge devices the bridge interfaces showed up several times in the web GUI. This was fixed.
<b>58525</b>	<b>Bridge interface lost on software update</b> Software bridge interfaces (like BR1, BR2) might get lost on SW-Update and needed to be reconfigured after the update was finished. This was fixed and the bridge interfaces are preserved on software update.
<b>59053</b>	<b>SDK improvements</b> nb_dio_count failed to remove obsolete data resulting in wrong data. This was fixed.

## 4 ECC conversion

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The flash on NB1600, NB2700, NB2710, NB3700, NB3710 and NB3720 provides an automated error correction using ECC. We changed the ECC length from 1-bit ECC to 4-bit ECC which provides better error correction. On first boot after the update was performed the data on the flash is automatically converted to use the new ECC setup. While this conversion is performed the LEDs show a running light for about 30 seconds.

If you switch back to an older software release like 4.0.0 the migration is reverted.

We tested updates and down-grades to and from 4.0.0 and 3.8.0. Updates to or from older versions are not supported. If you run an older release or want to downgrade to an older release or a feature release like 3.8.2 you are advised to migrate via 4.0.0 as an intermediate release.

To revert the migration on downgrade the SPL boot loader release 4.1.0 stays in place. It can be downgraded in a second software update process initiated from the target release after the first reboot.

Software updates with recovery images require special attention. You must not use recovery images 4.0.0 and older for systems running 4.1.0 and newer. If you want to use recovery images please contact our support at [router@support.netmodule.com](mailto:router@support.netmodule.com).

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## 6 Change History

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Version	Date	Name	Reason
1.0	2019-10-31	Rosenthal	Final

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